

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/523,117
Source: PCT
Date Processed by STIC: 2-22-05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,117

TIME: 08:22:32

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\02222005\J523117.raw

4 <110> APPLICANT: GlaxoSmithKline Biologicals s.a.
 5 Francois-Xavier BERTHET
 6 Ralph BIEMANS
 7 Philippe DENOEL
 8 Christiane FERON
 9 Karine GORAJ
 10 Jan POOLMAN
 11 Vincent WEYNANTS
 13 <120> TITLE OF INVENTION: Neisserial Vaccine Compositions Comprising a Combination of
 Antigens
 15 <130> FILE REFERENCE: B45315
 C--> 17 <140> **CURRENT APPLICATION NUMBER: US/10/523,117**
 18 <141> CURRENT FILING DATE: 2005-02-02
 20 <150> PRIOR APPLICATION NUMBER: PCT/EP03/08571
 21 <151> PRIOR FILING DATE: 2003-07-31
 23 <150> PRIOR APPLICATION NUMBER: GB 0305028.3
 24 <151> PRIOR FILING DATE: 2003-03-05
 26 <150> PRIOR APPLICATION NUMBER: GB 0230170.3
 27 <151> PRIOR FILING DATE: 2002-12-24
 29 <150> PRIOR APPLICATION NUMBER: GB 0230168.7
 30 <151> PRIOR FILING DATE: 2002-12-24
 32 <150> PRIOR APPLICATION NUMBER: GB 0230164.6
 33 <151> PRIOR FILING DATE: 2002-12-24
 35 <150> PRIOR APPLICATION NUMBER: GB 0225531.3
 36 <151> PRIOR FILING DATE: 2002-11-01
 38 <150> PRIOR APPLICATION NUMBER: GB 0225524.8
 39 <151> PRIOR FILING DATE: 2002-11-01
 41 <150> PRIOR APPLICATION NUMBER: GB 0220199.4
 42 <151> PRIOR FILING DATE: 2002-08-30
 44 <150> PRIOR APPLICATION NUMBER: GB 0220197.8
 45 <151> PRIOR FILING DATE: 2002-08-30
 47 <150> PRIOR APPLICATION NUMBER: GB 0218037.0
 48 <151> PRIOR FILING DATE: 2002-08-02
 50 <150> PRIOR APPLICATION NUMBER: GB 0218036.2
 51 <151> PRIOR FILING DATE: 2002-08-02
 53 <150> PRIOR APPLICATION NUMBER: GB 0218035.4
 54 <151> PRIOR FILING DATE: 2002-08-02
 56 <150> PRIOR APPLICATION NUMBER: GB 0218051.1
 57 <151> PRIOR FILING DATE: 2002-08-02
 59 <160> NUMBER OF SEQ ID NOS: 24
 61 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 63 <210> SEQ ID NO: 1
 64 <211> LENGTH: 9
 65 <212> TYPE: PRT

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,117

TIME: 08:22:32

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\02222005\J523117.raw

66 <213> ORGANISM: Neisseria meningitidis
 68 <220> FEATURE:
 69 <221> NAME/KEY: VARIANT
 70 <222> LOCATION: (1)...(9)
 71 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 73 <400> SEQUENCE: 1

W--> 74 Leu Xaa Gly Gly Xaa Gly Asn Asp Xaa

75 1 5
 78 <210> SEQ ID NO: 2
 79 <211> LENGTH: 9
 80 <212> TYPE: PRT
 81 <213> ORGANISM: Neisseria meningitidis
 83 <220> FEATURE:
 84 <221> NAME/KEY: VARIANT
 85 <222> LOCATION: (1)...(9)
 86 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 88 <400> SEQUENCE: 2

W--> 89 Leu Xaa Gly Gly Xaa Gly Asp Asp Xaa

90 1 5
 93 <210> SEQ ID NO: 3
 94 <211> LENGTH: 10
 95 <212> TYPE: PRT
 96 <213> ORGANISM: Neisseria meningitidis
 98 <400> SEQUENCE: 3
 99 Lys Thr Lys Cys Lys Phe Leu Lys Lys Cys
 100 1 5 10

103 <210> SEQ ID NO: 4
 104 <211> LENGTH: 31
 105 <212> TYPE: DNA
 106 <213> ORGANISM: Artificial Sequence
 108 <220> FEATURE:
 109 <223> OTHER INFORMATION: primer
 111 <400> SEQUENCE: 4

112 ggaattccat atgatgaaca aaatataaccg c

31

114 <210> SEQ ID NO: 5
 115 <211> LENGTH: 31
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Artificial Sequence
 119 <220> FEATURE:

120 <223> OTHER INFORMATION: primer

122 <400> SEQUENCE: 5

123 gtagctagct agcttaccac tgataaccga c

31

125 <210> SEQ ID NO: 6
 126 <211> LENGTH: 36
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Artificial Sequence
 130 <220> FEATURE:
 131 <223> OTHER INFORMATION: primer
 133 <400> SEQUENCE: 6

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,117

TIME: 08:22:32

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\02222005\J523117.raw

```

134 aactgcagaa ttaatatgaa aggagaagaa cttttc          36
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 33
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: primer
144 <400> SEQUENCE: 7
145 gacatactag tttatttgta gagctcatcc atg          33
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 30
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: primer
155 <400> SEQUENCE: 8
156 tccccgcggg ccgtctgaat acatcccgtc          30
158 <210> SEQ ID NO: 9
159 <211> LENGTH: 51
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: primer
166 <400> SEQUENCE: 9
167 catatgggct tccttttgta aatttgaggg caaacacccg atacgtcttc a          51
169 <210> SEQ ID NO: 10
170 <211> LENGTH: 48
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: primer
177 <400> SEQUENCE: 10
178 agacgtatcg ggtgtttgcc ctcaaattta caaaaggaag cccatatg          48
180 <210> SEQ ID NO: 11
181 <211> LENGTH: 33
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: primer
188 <400> SEQUENCE: 11
189 gggatttccg ggcccttcag acggcgcagc agg          33
191 <210> SEQ ID NO: 12
192 <211> LENGTH: 45
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: primer
199 <400> SEQUENCE: 12
200 ggcctagcta gccgtctgaa gcgattagag tttcaaaatt tattc          45

```

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,117

TIME: 08:22:32

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\02222005\J523117.raw

```

202 <210> SEQ ID NO: 13
203 <211> LENGTH: 42
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: primer
210 <400> SEQUENCE: 13
211 ggccaagctt cagacggcgt tcgaccgagt ttgagccttt gc 42
213 <210> SEQ ID NO: 14
214 <211> LENGTH: 39
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: primer
221 <400> SEQUENCE: 14
222 tcccccgga agatctggac gaaaaatctc aagaaaccg 39
224 <210> SEQ ID NO: 15
225 <211> LENGTH: 64
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: primer
232 <400> SEQUENCE: 15
233 ggaagatctc cgctcgagca aatttacaaa aggaagccga tatgcaacag caacatttgt 60
234 tccg 64
236 <210> SEQ ID NO: 16
237 <211> LENGTH: 36
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: primer
244 <400> SEQUENCE: 16
245 ggaagatctc cgctcgagac atcgggcaaa cacccg 36
247 <210> SEQ ID NO: 17
248 <211> LENGTH: 38
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: primer
255 <400> SEQUENCE: 17
256 tcccccgga gatctcacta gtattaccct gttatccc 38
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 41
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: primer
266 <400> SEQUENCE: 18
267 ctcgagacca tgggcaaata tcatgtctac gaccccctcg c 41

```

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,117

TIME: 08:22:32

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\02222005\J523117.raw

```

269 <210> SEQ ID NO: 19
270 <211> LENGTH: 43
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: primer
277 <400> SEQUENCE: 19
278 gtgcatagtg tcagagtttt tgtcgacgtc gtaattatag acc 43
280 <210> SEQ ID NO: 20
281 <211> LENGTH: 39
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: primer
288 <400> SEQUENCE: 20
289 aatggaatac atatgaataa aggtttacat cgcattatc 39
291 <210> SEQ ID NO: 21
292 <211> LENGTH: 31
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: primer
299 <400> SEQUENCE: 21
300 ccaactagtg tttttcgcta cttggagctg t 31
302 <210> SEQ ID NO: 22
303 <211> LENGTH: 44
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: primer
310 <400> SEQUENCE: 22
311 aatggaatac atatgaataa aggtttacat cgcattatct ttag 44
313 <210> SEQ ID NO: 23
314 <211> LENGTH: 45
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: primer
321 <400> SEQUENCE: 23
322 ggggccactc gaggtttttc gctacttgga gctgtttcag atagg 45
324 <210> SEQ ID NO: 24
325 <211> LENGTH: 4217
326 <212> TYPE: DNA
327 <213> ORGANISM: Neisseria meningitidis
329 <400> SEQUENCE: 24
330 atgaataaag gtttacatcg cattatcttt agtaaaaagc acagcaccat ggttgacagta 60
331 gccgaaactg ccaacagcca gggcaaaggt aaacaggcag gcagttcggt ttctgtttca 120
332 ctgaaaactt caggcgacct ttgcggcaaa ctcaaaacca cccttaaaac tttgggtctgc 180
333 tctttggttt ccctgagtat ggtattgcct gcccatgcc aaattaccac cgacaaatca 240

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/523,117

DATE: 02/22/2005
TIME: 08:22:33

Input Set : A:\Seqlist.txt
Output Set: N:\CRF4\02222005\J523117.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,5,9

Seq#:2; Xaa Pos. 2,5,9

VERIFICATION SUMMARY

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,117

TIME: 08:22:33

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\02222005\J523117.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number

L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0